



Box-Sequence  
5300 #4

PATENT  
Customer No. 22,852  
Attorney Docket No. 6843.0028-02000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
Tsutomu ARAKAWA et al. ) Group Art Unit: 1642  
Serial No.: 09/994,068 ) Examiner: Not Yet Assigned  
Filed: November 27, 2001 )  
For: ANTIBODY-INDUCED )  
APOPTOSIS )

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**AMENDMENT AND RESPONSE TO NOTICE TO FILE CORRECTED**

**APPLICATION PAPERS**

Applicant now responds to the Notice To File Corrected Application Papers  
("Notice") mailed December 10, 2001. A copy of the notice is enclosed.

**IN THE SPECIFICATION:**

Please amend the specification as follows:

Please replace page 18 that was filed on November 27, 2001, with the enclosed  
replacement page 18.

Please enter the enclosed Sequence Listing into the application after page 34.

Please replace the paragraph at line 23 on page 13 with the following:

Thr Ser Asp Tyr Lys Asp Asp Asp Asp Asp Lys STOP (SEQ ID NO: 1)

LAW OFFICES

FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000

209020-8904660

Please replace the paragraphs at lines 6-7 on page 14 with the following:

5' CCACCCGGGTTAGAGGAAGA 3' (SEQ ID NO: 2) and

5'-AGTTACGTTCTCTGGGCATTA-3' (SEQ ID NO: 3)

Please replace the paragraphs at lines 24-25 on page 14 with the following:

5' CATGAGGGCGAACGACGCTCTG 3' (SEQ ID NO: 4) and

5' CTTGGTCAATGTCTGGCAGTC 3' (SEQ ID NO: 5)

Please replace the paragraphs at lines 5-7 on page 15 with the following:

Sense 5' CGCTCTAGACCACCATGAGGGCGAACGACGCTCTGCA 3' (SEQ ID NO: 6)

Antisense 5' CGCGGATCCGTGCGACTCACTATGTCAGATGGGTTTTGCCGAT 3'  
(SEQ ID NO: 7)

Please replace the paragraph at lines 7-15 on page 16 with the following:

All positive cDNA clones which were sequenced were found to be partial Her4 cDNA clones. The sequences were found to be identical to the published Her4 sequence (Plowman et al. supra) except for a short deletion/replacement in the extracellular domain. Amino acids 626 to 648 of the published Her3 sequence (NGPTSHDCIYYPWTGHSTLPQHA; SEQ ID NO: 10) were replaced by the peptide sequence IGSSIEDCIGLMD (SEQ ID NO: 11). Also, G at amino acid position 573 of Plowman's sequence was replaced by D.

Please replace the paragraphs at lines 33-34 on page 16 with the following:

5' CCAAACATGACTGACTTCAGTG 3' (SEQ ID NO: 8) and

5' GGCCAATTGCGGCCGCTTACTAATCCATCAGGCCGATGCAGTCTTC 3' (SEQ ID NO: 9)

### **IN THE DRAWINGS**

Please replace the drawings (11 sheets of Figures 1-6), filed November 27, 2001, with the enclosed replacement drawings (11 sheets of Figures 1-6).

### **REMARKS**

Applicant encloses an appendix that shows the changes made to the specification by the current amendment. The Notice requested a replacement page 18. In the amendment above, a new page 18 has been inserted. New page 18 adds no new matter.

The Notice also stated that the drawings were unacceptable because "replacement page(s), together with a statement that the replacement page(s) contain no new matter, are required." Notice at page 1. In the amendment above, replacement drawings (11 sheets of Figures 1-6) have been inserted. The replacement drawings add no new matter.

The Notice also stated that the application fails to comply with the requirements of 37 C.F.R. §§ 1.821-1.825. The Notice indicated that an initial computer readable form (CRF) copy of the Sequence Listing, an initial paper copy of the Sequence Listing, and a statement under 37 C.F.R. §§ 1.821 and 1.825, are required. Applicants submit a CRF copy of the Sequence Listing and a paper copy of the Sequence Listing (4 pages), and request entry of the Sequence Listing into the application. The undersigned states that the information contained in the CRF copy is identical to the paper copy of the

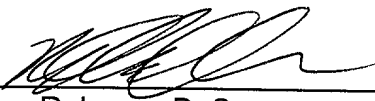
Sequence Listing submitted herewith, and that the Sequence Listing adds no new matter. The specification has been amended to insert SEQ ID NOs into the specification according to the enclosed Sequence Listing.

Please grant any extensions of time required to enter this response, and charge any additional required fees to Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: February 5, 2002

By:   
Rebecca B. Scarr  
Reg. No. 47,057

LAW OFFICES  
FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000



## APPENDIX

### VERSION WITH MARKINGS TO SHOW CHANGES MADE

#### IN THE SPECIFICATION:

Please replace the paragraph at line 23 on page 13 with the following:

Thr Ser Asp Tyr Lys Asp Asp Asp Asp Asp Lys STOP (SEQ ID NO: 1)

Please replace the paragraphs at lines 6-7 on page 14 with the following:

5' CCACCCGGGTTAGAGGAAGA 3' (SEQ ID NO: 2) and

5'-AGTTACGTTCTCTGGGCATTA-3' (SEQ ID NO: 3)

Please replace the paragraphs at lines 24-25 on page 14 with the following:

5' CATGAGGGCGAACGACGCTCTG 3' (SEQ ID NO: 4) and

5' CTTGGTCAATGTCTGGCAGTC 3' (SEQ ID NO: 5)

Please replace the paragraphs at lines 5-7 on page 15 with the following:

Sense 5' CGCTCTAGACCACCATGAGGGCGAACGACGCTCTGCA 3' (SEQ ID NO: 6)

Antisense 5' CGCGGATCCGTCGACTCACTATGTCAGATGGGTTTTGCCGAT 3'  
(SEQ ID NO: 7)

#### LAW OFFICES

FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000

Please replace the paragraph at lines 7-15 on page 16 with the following:

All positive cDNA clones which were sequenced were found to be partial Her4 cDNA clones. The sequences were found to be identical to the published Her4 sequence (Plowman et al. supra) except for a short deletion/replacement in the extracellular domain. Amino acids 626 to 648 of the published Her3 sequence (NGPTSHDCIYYPWTGHSTLPQHA; SEQ ID NO: 10) were replaced by the peptide sequence IGSSIEDCIGLMD (SEQ ID NO: 11). Also, G at amino acid position 573 of Plowman's sequence was replaced by D.

Please replace the paragraphs at lines 33-34 on page 16 with the following:

5' CCAAACATGACTGACTTCAGTG 3' (SEQ ID NO: 8) and

5' GGCCAATTGCGGCCGCTTACTAATCCATCAGGCCGATGCAGTCTTC 3' (SEQ ID NO: 9)

209020" 8904660

LAW OFFICES

FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000